

Title (en)

ROTOR BLADE FOR A WIND TURBINE AND A SUB-MEMBER

Title (de)

ROTORBLATT FÜR EINE WINDTURBINE UND EIN UNTERELEMEN

Title (fr)

PALE DE ROTOR POUR UNE ÉOLIENNE ET UN SOUS-ÉLÉMENT

Publication

EP 3179093 A1 20170614 (EN)

Application

EP 15198408 A 20151208

Priority

EP 15198408 A 20151208

Abstract (en)

The disclosure relates to a rotor blade (104) for a wind turbine, the rotor blade (104) comprising two or more wing members (110, 112, 114), wherein each wing member (110, 112, 114) is divided into at least a first sub-member (110a) and a second sub-member (110b), the sub-members (110a-b) being arranged one after another along a longitudinal direction of the rotor blade (104), wherein, in each wing member (110, 112, 114), at an interface (116) between the first and the second sub-member (110a-b), the first sub-member (110a) is arranged in the rotor blade (104) with an outer end angular orientation about the longitudinal direction and the second sub-member (110b) is arranged in the rotor blade (104) with an inner end angular orientation about the longitudinal direction, the inner end angular orientation of the second sub-member (110b) being different from the outer end angular orientation of the first sub-member (110a). The disclosure also relates to a sub-member adapted to extend from an inner end to and outer end and to thereby form a discrete portion of a longitudinal extension of a wing member (110, 112, 114) of a rotor blade (104) for a wind turbine.

IPC 8 full level

F03D 1/06 (2006.01)

CPC (source: EP US)

F03D 1/0633 (2013.01 - EP US); **F03D 1/0675** (2013.01 - EP US); **F05B 2240/221** (2013.01 - EP US); **F05B 2240/301** (2013.01 - EP US); **F05B 2240/302** (2013.01 - EP US); **F05B 2280/6003** (2013.01 - EP US); **Y02E 10/72** (2013.01 - EP US)

Citation (search report)

- [X] EP 0274777 A1 19880720 - RIOUT ROLAND
- [X] WO 2014006542 A2 20140109 - NELSON MANDELA METROPOLITAN UNIVERSITY [ZA]
- [X] US 4295790 A 19811020 - EGGERT JR WALTER S
- [A] US 2012027608 A1 20120202 - MARTINEZ ALFREDO PORFIRIO AMADOR [MX]
- [A] DE 102009040515 A1 20110310 - GRIMM FRIEDRICH [DE]

Cited by

US2023279862A1; US11795954B2; EP3653871A1; CN111677627A; US11746797B1; WO2021246976A1; EP4242467A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3179093 A1 20170614; CN 108368823 A 20180803; CN 108368823 B 20200626; DK 3387251 T3 20200309; EP 3387251 A1 20181017; EP 3387251 B1 20191225; US 2019024629 A1 20190124; WO 2017097677 A1 20170615

DOCDB simple family (application)

EP 15198408 A 20151208; CN 201680071406 A 20161202; DK 16805428 T 20161202; EP 16805428 A 20161202; EP 2016079587 W 20161202; US 201616060615 A 20160212